ANNUAL REPORT
KANSAS EXPLORATIONS, INC.
1937

40121189 Superfund

Joplin, Missouri. February 12, 1938.

Mr. Andrew Fletcher, Vice President Kensas Explorations; Inc., 250 Park Avenue, New York City, N. Y.

Dear Sir:

I transmit herewith Annual Report of the Kansas Explorations, Inc., for the year 1937.

Respectfully submitted,

ResoBlake.

ANNUAL REPORT

OF

KANSAS EXPLORATIONS INCORPORATED

JOPLIN, MISSOURI

1957

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REPORT

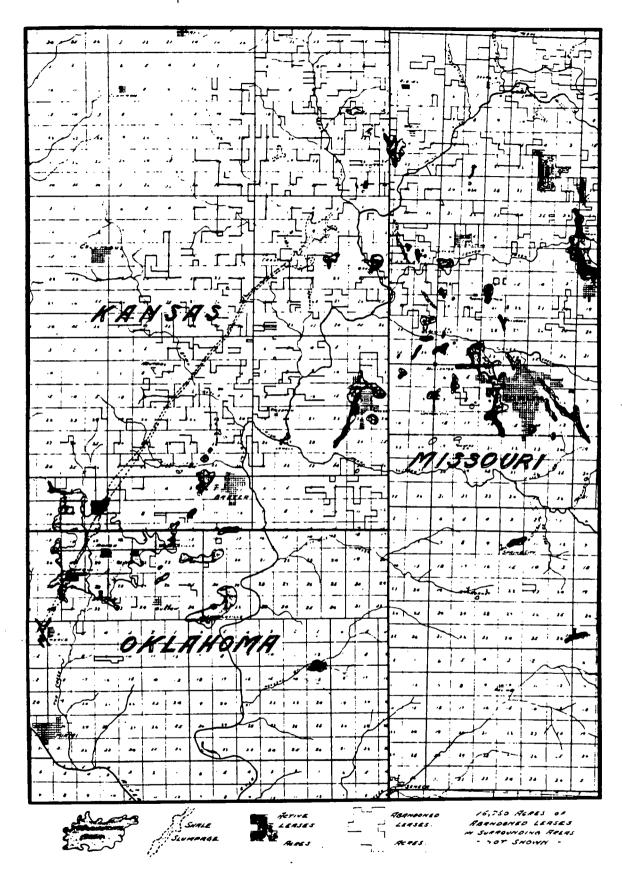
ANNUAL

1937

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1957

SUMMARY



TAI - STATE DISTRICT.

SNOWING KANSAS EXPLORATIONS INC. LEASES.

JANUARY 1, 1938.

ANNUAL REPORT

OF

KANSAS EXPLORATIONS INCORPORATED

1937

The only operations of the Kansas Explorations, Inc., during the year 1937, was at the Ritz unit. These operations began March 22, 1937, and continued during the balance of the year. The rehabilitation of the plant and unwatering of the mine began February 1, 1937, and was completed March 22, 1937. The Jarrett unit was inactive from January 1, 1937, until March 26, 1937, at which time, we began sinking #4 shaft, which was completed August 8, 1937 at a depth of 572 feet. Development work by drifting was completed October 28th, and work of rehabilitating the plant was begun at once and completed the first part of December, at which time it was thought advisable to postpone the commencing of operations, on account of the low prices of lead and zine.

Due to recent Federal and State legislation, the tax increase in 1937 over previous operations, amounts to about \$0.05 per ton of rock mined and \$0.76 per ton of concentrates produced.

LIST OF LEASES AS AT DECEMBER 31, 1937.

--- OPERATING UNITS ---

Number	Name		Acres	State	Land-owner Royalty
JARRETT '	UNIT				
973	Jarrett		240	Kansas	10%
RITZ UNI	T				
921	Ritz		60	Oklahoma	12 1 %
DARDENNE	UNIT				
9741	.Dardenne		40	Oklahoma	5% - 10%*
*5% on	Tailings	and 10%	on Under	ground ore	· 5.

--- PROPOSED UNITS ---

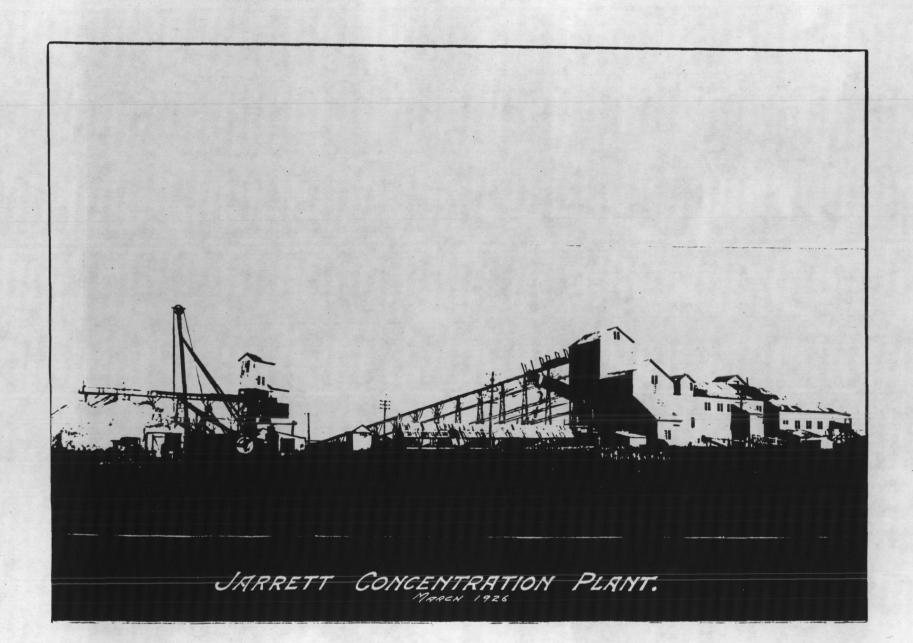
SNAPP UNIT

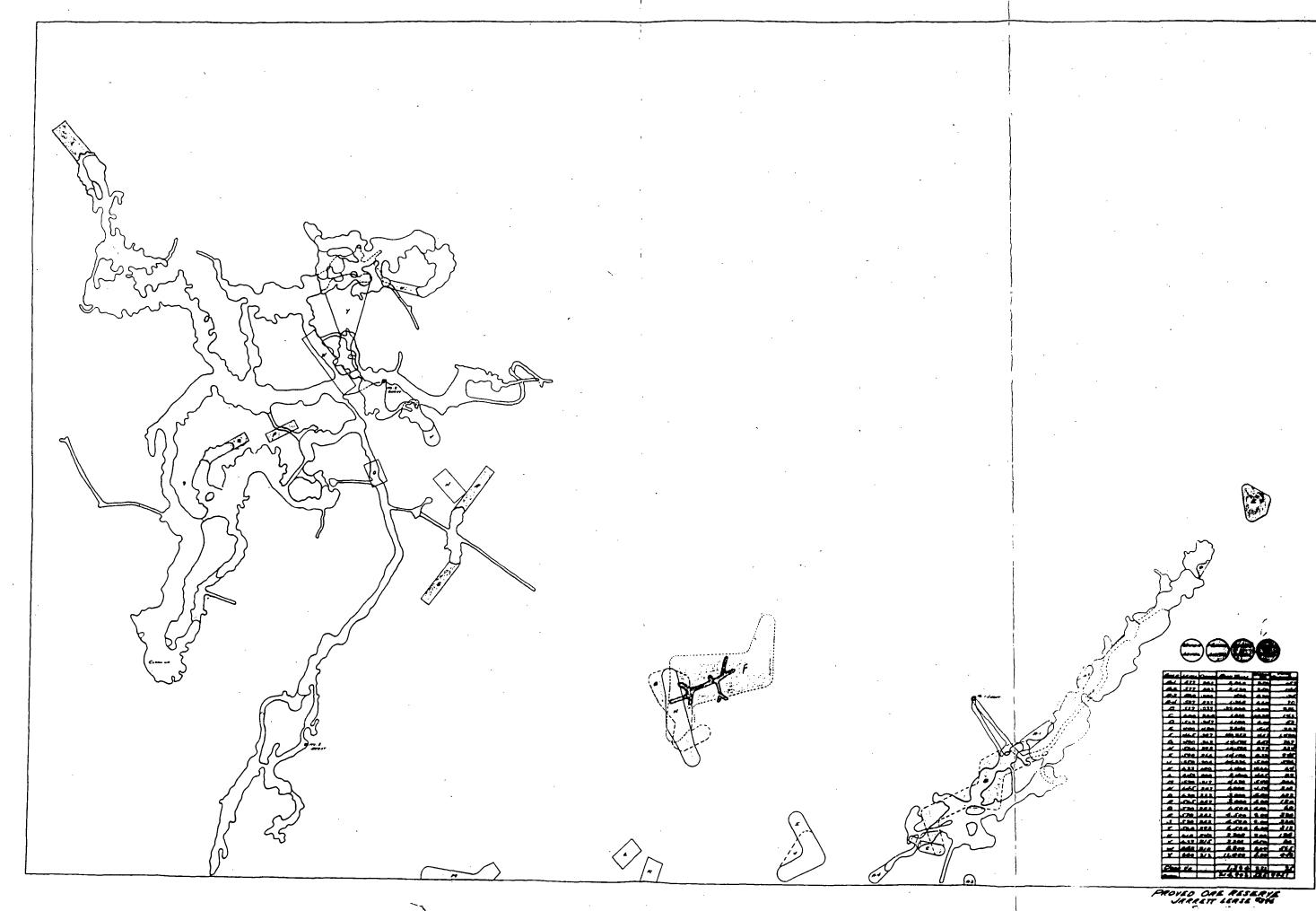
	Snapp	40	Missouri	
974	Gunning	280	Missouri	78%
975	Gunning	160	Missouri	7 1/6
976	Buckingham	107	Mi sso uri	7
977	Buckingham (A.J.)	140	' Mi ssouri	73%
978	Poundstone	80	Missouri	7 1/8
979	Cushman	80	Missouri	7 1/6
980	McReynolds	80	Missouri	7 1/6
964	Ragland	40	Missouri	71%
	Total Acreage	1007	Acres	

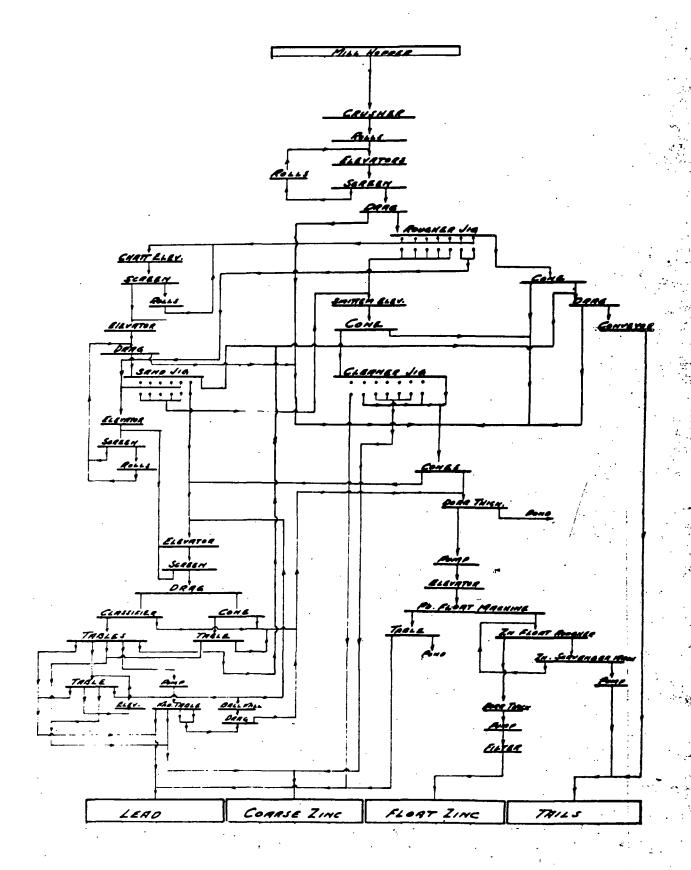
No work was done in this area during 1937.

During 1936, the following leases were extended for a 10 year period: A. J. Buckingham, Gunning (2 leases), Poundstone, Cushman, Rebecca Buckingham, etal. In the latter part of 1937, the McReynold's lease was extended for a 10 year period. The Ragland 40 acre lease expires in 1940 and the owner promises a renewal at that time.

JARRETT UNIT







JARRETT UNIT

1937

The Jarrett unit has been closed during the period from April 50, 1931 until March 26, 1937, at which time it was decided to sink Shaft #4 at a point about midway between the mill and #2 Shaft, in the area where some drilling had been done in 1931; this drilling did not indicate a very rich ore body. The shaft was started on March 26, 1957 and completed August 8, 1937, at a depth of 572 feet. A radical departure from the usual practice of handling the mine water in shaft sinking operations was used in the sinking of this shaft. Instead of cutting pump seats every 25 feet and making a complete pumping installation with electric motors and power lines, which transmit 8200 volts into the mine, a 16" churn drill hole was drilled, 8 feet from the shaft, to a depth of 427 feet, in which was installed a 13 stage Peerless pump at a depth of 400 feet, which is driven from the surface by an electric motor. This pump has a capacity of 1500 gallons of water per minute, but the average amount of water pumped during shaft sinking operations, was about 700 gallons per minute. During the sinking operations, whenever the water in the shaft would not drain to the pump fast enough to permit sinking operations, a hole was drilled from the shaft into the large 16" drill hole, 8 feet from the shaft. At times, it was

necessary to use a 5" air driven turbine pump to force the water from the shaft into the drill hole to permit shaft sinking operations to be carried on. This method saved several thousand dollars in the shaft sinking and development operations.

Several hundred feet of development drifts were driven, which disclosed kinc and lead one ranging in thickness from 10 feet to 25 feet, which had an estimated grade of better than 6%. At the completion of the mine development work on October 28, 1937, work was started at once on the rehabilitation of the Jarrett Unit to get it into operation as soon as possible. This work was practically completed during the first week in December, when, due to the low price of zinc and lead, it was deemed advisable to postpone the commencement of actual operations until we could enjoy a more favorable selling price for our concentrates.

At Shaft #2, the surface derrick and hopper was completely overhauled; electrical, hoisting and pumping equipment installed; mine inclines dewatered; and a new battery for the mine storage battery locomotive was purchased. The plant is now ready for operation. All mine equipment including mine storage battery locomotive and motors have been left in mine ready for operation, as there is no danger from water.

At Shaft #4, a hopper and derrick was built and necessary electrical and hoisting equipment installed,

but when it was decided to suspend all operations, the pump in the large drill hole was taken out and left on the surface. This equipment can be re-installed and placed into operation in a very short time.

A new surface tram track was built to the mill. Also, the surface tram line between Shaft #2 and the mill, was completely overhauled; 2 tram locomotives put into operating condition; a Sullivan 5-drum drag hoist and a 48" drag and complete equipment for operating the drag was purchased.

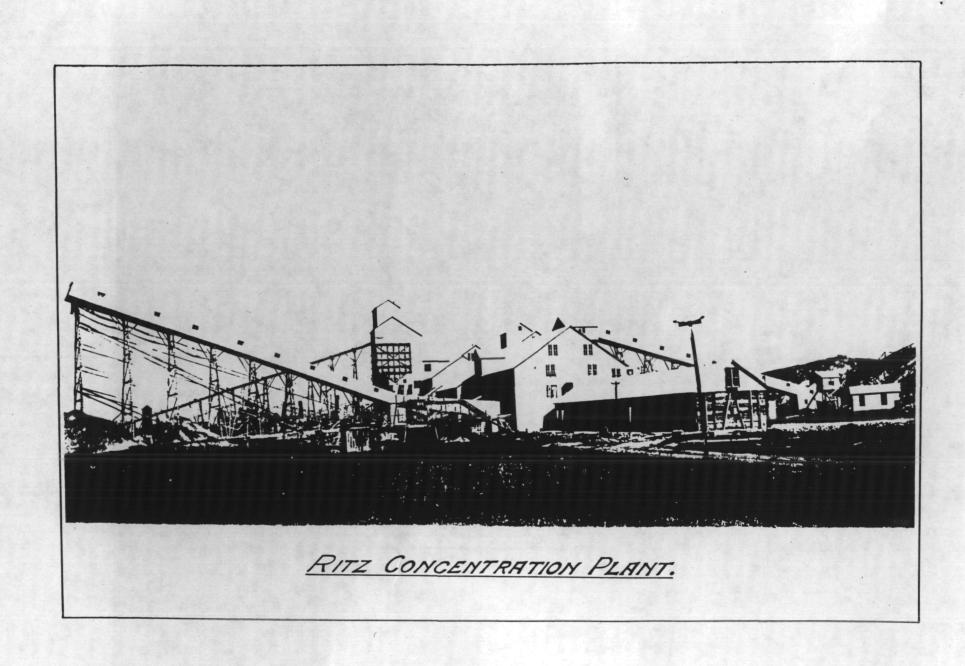
The mill has had a complete overhauling; new jigs were built; an additional Butchart flotation machine was installed to take care of the extra amount of lead which was indicated in the mine development at #4 shaft; and, an addition was built onto the tailing conveyor. The entire plant could be put into operation within a reasonably short time.

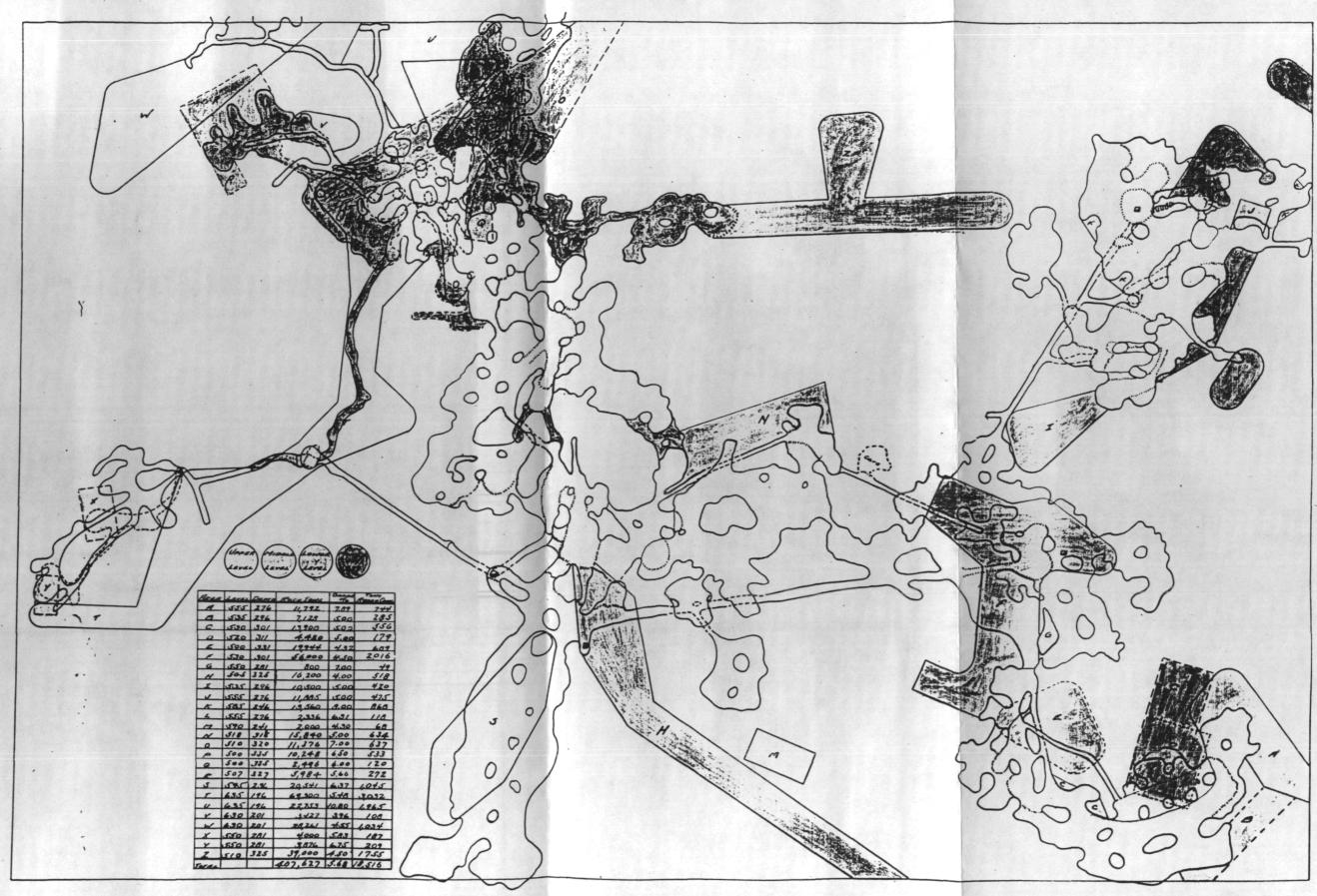
•		
The cost of #4 shaft sinking, new pumping equipment was -	including	\$22,118.60
The cost of #4 mine developmen	t was -	\$11,544.46
The cost of derrick, hopper and equipment for #4 Shaft -	\$ 7,796.07	
The cost of dewatering #2 shaft, installing pumps and electrical equipment, and repairs to derrick and hopper -	‡ 4,91 8.58	
The cost of repairing and building surface tram from mill to #2 shaft, and building surface tram from mill to #4 shaft was -	\$ 2,195.30	
Cost of all mill repairs,	A 15 A8A 58	
ponds, etc., was -	\$15,030.57	
Total rehabilitation expense w	•	\$29,940.52
	4.S -	\$29,940.52 \$ 2,855.50
Total rehabilitation expense w	8.S -	_
Total rehabilitation expense we Shut Down Expense for 1937 was Total expenditures at the Jarra	8.S -	\$ 2,855.50
Total rehabilitation expense we Shut Down Expense for 1937 was Total expenditures at the Jarraduring the year 1937 was -	8.S -	\$ 2,855.50
Total rehabilitation expense we shut Down Expense for 1937 was Total expenditures at the Jarraduring the year 1937 was - Income: Sale of 4 Armstrong churn	as - ett Unit	\$ 2,855.50
Total rehabilitation expense we shut Down Expense for 1937 was Total expenditures at the Jarrduring the year 1937 was - Income: Sale of 4 Armstrong churn drills - Sale of mules and erusher equipment to Robinson	as - ett Unit \$ 1,499.00	\$ 2,855.50

During the year 1937, the four Armstrong churn drills used for surface prospecting, were disposed of as they were hadly in need of repair and were of an old design.

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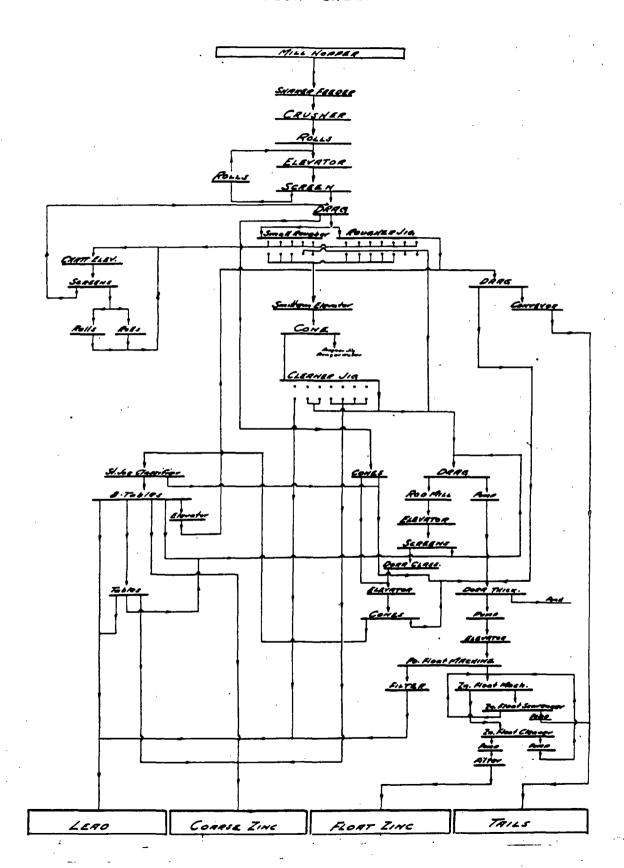
RITZ UNIT





PROVED ORE RESERVE RITZ LEASE #921 SCALE 1'=100'

RITZ MILL FLOW SHEET



RITZ UNIT

1.9 5 7

The Ritz unit was inactive from January 1, 1937 to February 1, 1937. On February 1st, it was decided to unwater the mine, rehabilitate the plant, and place it in operation as soon as possible. This work was started February 1st, and the plant began operations March 22, 1937, and operated continuously during the year 1937

During the year, the 50 ton per hour capacity concentration plant operated three eight-hour shifts from March 22nd to December 51, 1937. All ore treated was mined underground, and was hoisted at the mill shaft, all being delivered to the shaft by a three and one-half ton storage battery locomotive and a rope haulage system

The outstanding development during 1937, was the development of the deeper run of ore extending down to an elevation of 500, around the edges of the ore body mined in the Northwestern part of the lease, and, the completion of a drift in the upraise through to the upper level ore in the area Northwest of the mill shaft and to the West and South of the Northwest shaft on the 635 elevation, but, due to low ore prices, the ore body was not mined after development work was completed.

At the Ritz unit during 1937, a total rock tonnage

of 104,555 tons was hoisted, and a total of 100,610 tons of mine rock was treated in the concentration plant. From the tonnage treated, 5,576.725 tons of zinc concentrates (60% Zm.), and 1,186.045 tons of lead concentrates (80% Pb.) were recovered. The entire tonnage of rock treated during 1937 yielded a recovery of 5.54% in the form of zinc concentrates (60% Zm.), and 1.18% in the form of lead concentrates (80% Pb.). During the operating period, 20,089 man shifts were employed in operations, each man shift averaging a production of 5.2 rock tons or the equivalent of .34 tons of zinc and lead concentrates. The total average operating cost was \$2.12 for each ton of rock, or \$32.48 for each ton of zinc and lead concentrates recovered.

On December 51, 1957, the Ritz unit had no concentrates in bins. During the year 1937, 5,576.725 tons of zinc concentrates and 1,186.045 tons of lead concentrates were sold and loaded. An average gross price per ton (2,000 pounds) of \$45.01 for zinc concentrates and \$60.17 for lead concentrates was obtained, or an average of \$46.02 per ton. The average royalty paid on zinc and lead concentrates sold and loaded at this property during 1937, was \$5.75 per ton. On December 51, 1937, at this unit, the Company had no zinc concentrates or lead concentrates in the bins.

As the larger part of the tonnage mined during the last five months of the year came from a new and deeper incline, it was necessary to install a rope haulage system,

at a cost of \$500.00; a 5 drum hoist and steel ramp with necessary equipment at a cost of \$3,550.00, at the points where it was possible to use this loading equipment. It reduced our loading costs 50%.

During the year, \$11,479.48 was spent in churn drilling, operating development, and other miscellaneous work tending toward the accumulation or the development of ore reserves. This expenditure is approximately 11¢ per ton of rock mined and \$1.70 per ton of concentrates produced. We have kept one surface churn drill at work continuously during the time the mine has been operating, and have drilled 2900 feet. During 1937, 900 feet of development drifts were driven. At the beginning of the year, at the Ritz unit, the Company's probable ore reserve was 43,600 tons of zinc and lead concentrates. At the end of the year the probable ore reserve was 50,000 tons of zinc and lead concentrates. Development work done during the year disproved some of the ore reserves reported in previous reports. During the year, 6,762.770 tons of zinc and lead concentrates were produced.

penditure for labor and liability insurance (including salaries) was \$114,925.45; for all items ether than labor, \$104,744.11; or a total of \$219,669.56. The total operating profit from March 22, 1937 to December 31, 1937, at the Ritz unit, was \$52,646.78, hased on actual sales of ore loaded during the year.

From January 1, 1937 to March 22, 1937, inclusive, \$993.57 was spent as shut down expenses at the Ritz unit. The cost of rehabilitating the plant and unwatering the mine was \$34,564.79. \$9,000.00 of this amount has been written off as a charge against 1937 operations.

RITZ UNIT

1938

RECOMMENDATIONS

It is recommended that the amount of development work be materially increased both by surface drilling and by underground development.

ROBINSON LEASE

1957

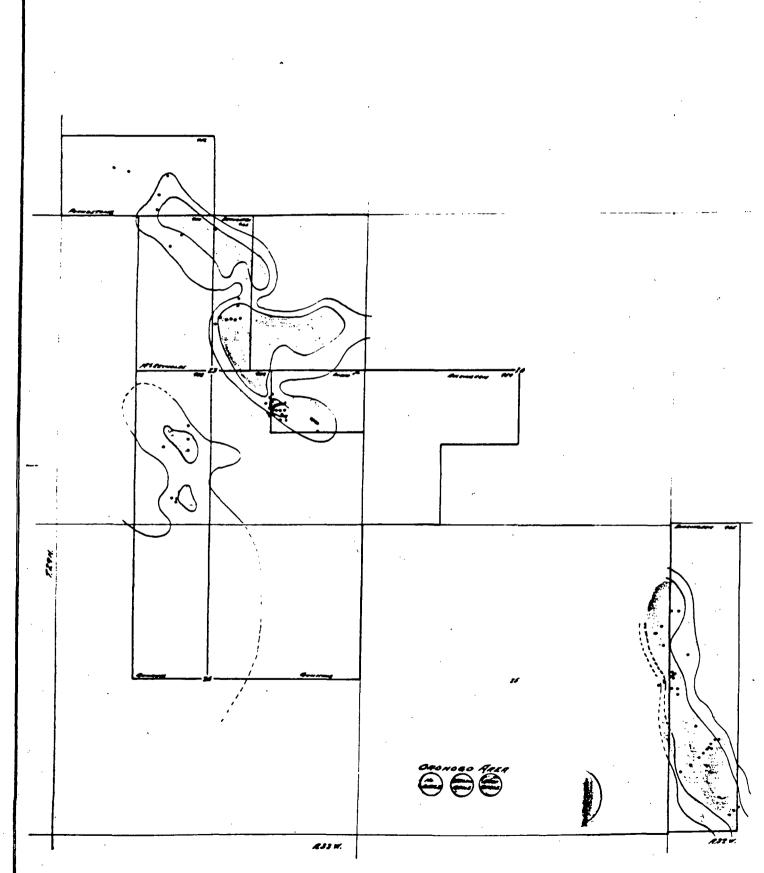
The Robinson lease was operated by the American Zinc, Lead & Smelting Co., continuously during the year.

The base price of lead concentrates in January, 1937 was \$70.00 and of zinc concentrates \$35.00 and \$36.00. In the last week of December, 1937, the base price of lead concentrates was \$56.00 and of zinc concentrates \$31.00 and \$32.00.

Following is the result of operations during 1937:

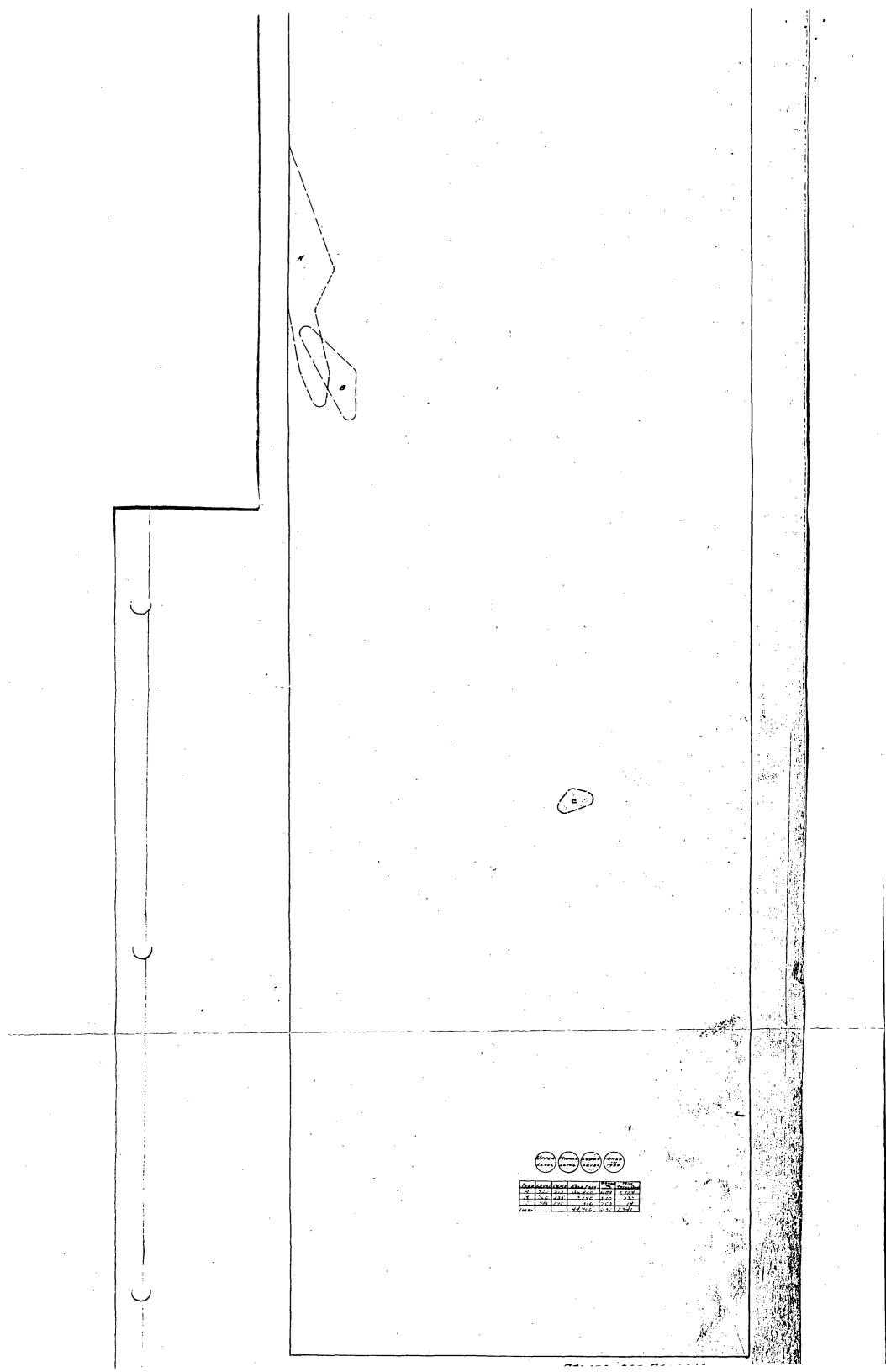
Tons Mined - Tons Milled -	130,614 129,596
Tons Concentrates Produced - Zinc 9052.	
Lead 547.	.08
Total	9,599.26
Grade of Ore Milled - Zine 6.	93
Lead .	27
To tal	7.20
Cost Per Rock Ton Mined -	2.09
Cost Per Ton Concentrates Produced -	29.06
Sales Value Per Ton	
of Concentrates - Zinc 43.	.34
Lead 72.	.10
To tal	44.40
Tons Concentrates Sold	
during 1937 - Zinc 9052.	
Lead 547.	
To tal	9399.26
Tons Concentrates in Bin at Dec. 31, 1937	
Gross Sales -	417,312.68
Royalty -	62,596.87
Net Value -	354,715.81
Cost of Sales -	273,132.53
Net Mine Earnings -	81,583,28
Share to Kansas Explorations, Inc.	60,527.82
Share to American Zine, Lead & Smelting C	21,055.46

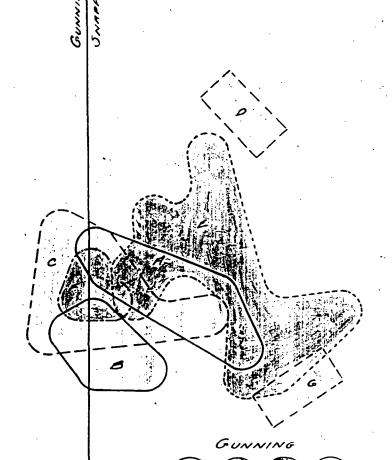
SNAPP UNIT - PROPOSED

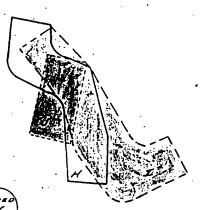


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SNAPP



Acen	Level	arezn	ROCKTONS	TO	Accex Con
A	160	102	36,0,9,9	1271	3669
8	250	112	5.371	6.13	263
ے	815	147	14.590	6.40	645
0	520	142	8.148	7.84	510
	705	177	57.244	6.27	2,871
F	750	2/2	2.646	5.46	117
<u>_G</u>	820	1.12	6,244	3.30	167
H	850	126	3.422	465	128
T	140	236	30.740	6.84	1679
J	660	316	12.202	9.39	1446
TOTAL			153,345	7.73	11445

SNAPA

GUNNING

PROVED ORE RESERVE.
GUNNING - SNAPP = 969 &=571

SNAPP UNIT - PROPOSED

1957

The Snapp law-suit was decided in favor of the Kansas Explorations, Inc., during the early part of 1937, and was immediately appealed to the Missouri State Supreme Court by attorneys for the plaintiff. On September 10, 1937, a settlement was made with the attorneys for the plaintiff in the amount of \$500.00, for which plaintiff surrenders all claims they might have to this tract of land.

An estimated tonnage of 50,900 tons of probable zinc and lead concentrates were developed as of December 51, 1931. No development work has been done since that time.

DARDENNE UNIT - PROPOSED

DARDENNE UNIT - PROPOSED

1957

This lease has been sub-leased to the Mary M Mining Co., which was taken over recently by the Eagle-Picher Mining & Smelting Co.

This lease has been inactive during the greater part of 1937, but during the months of November and December, the Eagle-Picher Mining & Smelting Company, started surface drilling operations with one drill. They informed me they had cut one good ore hole and two additional holes that showed fair ore. They advised, they would start developing this ore immediately.

EMPLOYER'S LIABILITY

EMPLOYER'S LIABILITY 1 9 3 7

During 1937, the Kansas Explorations, Inc., carried their own Liability Insurance. A total of 27 lost time accidents occurred during the year, making a total of 504 shifts lost, averaging 18.7 shifts lost per accident, and 21.1 shifts lost per 1,000 man shifts worked. There was \$11,661.25 credited to the Reserve account during the year. The cost of all 1937 accidents was \$2,816.04, plus \$735.00 estimated liability on 1937 cases unsettled as at December 51, 1937, which indicated a profit of \$8,110.21 under Self-Insurance coverage for the year.

•	•	ACCII	EVI	DATA				
	JAR	RETT	R	I TZ	OTH	er*	10	TAL
	1925 to 1931	1937	1925 to 1931	1937	1925 to 1931	1937	1925 to 1931	1937
Total Accidents	189	5	115	22	476	0	780	27
Fatalities	0	0	2	0	7	0	9	0
Shifts Lost Per M. Shifts Worked	26.5	48.3	26.9	19.9	0	0	41.0	21.1
Tons Rock Per Shift Lost	228.2	• 0	427.7	261.3	0	0	153.2	207.4
Total Cost	23001.63	383.75	21994.30	3167.31	82734.83	. 0	127730.76	3551.04
Cost Per Rock Ton Mined	.043	3 0	.030	.030	0	0	.058	.054
Total Reserve	36873.36	1829.95	20698.75	9226.78	98909.76	604.52	156481.87	11661.25
Balance	13871.73	1446.82	1295.55	6059.47	16174.93	604.52	28751.11	8110.21

^{*}Includes Robinson, Isherwood and Miscellaneous prior to 1937.

LEGAL

LAW SUITS

1957

There are no pending law suits against the Kansas Explorations, Inc., the Snapp suit being definitely settled during the year 1937.

GENERAL

GENERAL EXPENDITURES

		•
	Amount	% Total
Lease Rentals	967.00	.26
Snapp Property Idle Expense	1145.90	.31
Taxes - Snapp	10.71	.01
Taxes - Dardenne	49.18	.01
Total Lease Expense	2172.79	.59
Mine Development	0	0
Mine Plant	1435.90	.39
Jarrett Shaft #4 Sinking Expense	22118.60	6.04
Jarrett Shaft #4 Development Expense	11544.46	3.15
Jarrett Starting Up Expense	29940.52	8.18
Ritz Starting Up Expense	34564.79	9.44
Meter Deposit	12.00	. 0
Special Deposit	15.00	0
Drill Equipment	1499.00	.41
Cash Accounts	1990.00	.54
Accounts Receivable	11646.87	5. 18
Mining & Milling Expense	199580.81	54.51
Shut Down Expense	5849.07	1.05
Robinson Concentrate	5.50	0
General Expense	8313.39	2.27
Royalties	5 8902.55	10.62
Taxes - Jarrett	819.77	.22
Taxes - Ritz	3263.75	.89
Taxes - Joplin Office	19.08	.01
Federal Old Age Benefit Taxes	1442.56	.59
Unemployment Insurance Taxes	292 8.44	.80
Totals	\$566160.65	100.00

Accounts Receivable on our books at the close of the year showed a balance of \$1,647.66.

At the close of the year, Current Liabilities were as follows:

Treasury Drafts - Payroll	\$ 1872.65
Treasury Drafts - Salary	605.92
Treasury Drafts - Special	294.14
Treasury Drafts - Other	475.32
Vouchers Payable	22416,29
Unemployment Ins. Taxes Accrued	525.17
Old Age Benefit Taxes Payable	297.44
Oklahoma Use Tax Payable	78.67
Kansas Compensating Tax Payable	101.33

TOTAL \$26666.93

Income for the year, other than that from concentrate sales, consisted of the following:

Discount Earned	\$ 930.67
Robinson Operations	66900.70
中 八甲(打	-\$67841 . S7